

- Trauma System
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- Durable Do Not Resuscitate

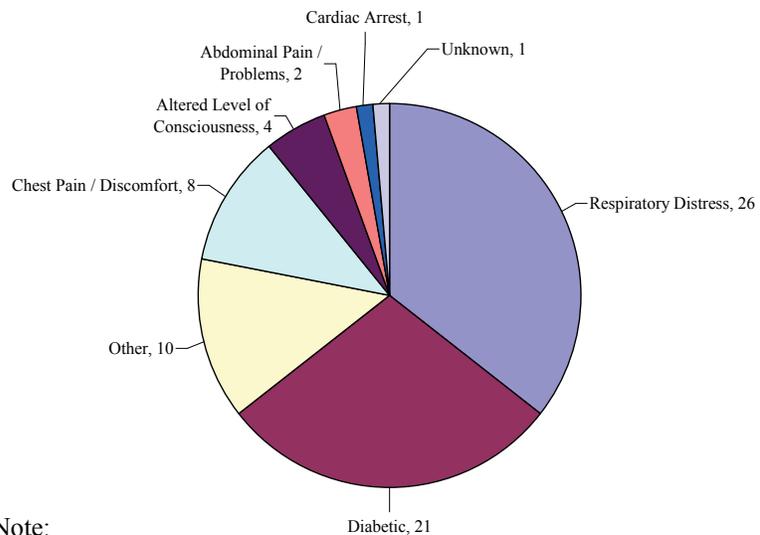
### Fact Sheet

April 21, 2008

The Peninsulas Regional EMS Council (PEMS) has submitted a Spring 2008 RSAF grant for EpiPen Jr's for the treatment of anaphylaxis. PEMS' grant states that they recently added the use of the adult EpiPen to the regions list of BLS skills and that they would like to extend the use of EpiPens to the pediatric environment.

The chart below shows the total number of BLS responses (all ages) in the PEMS region during the years 2005 thru 2007 that listed medication administration as being performed by BLS providers. No cases of BLS providers utilizing medication administration for allergic reactions were reported for the three year time period.

2005-2007 Incidence of BLS Administered Medications to Adults



Note:

PPCR allows providers to choose up to five "clinical assessments". None of the 77 cases depicted in this 3 year chart had a subsequent diagnosis of "allergic reaction".

Additionally, the PEMS grant states that ALS providers, as well as BLS, will be utilizing the EpiPen auto injectors. This grant is requesting hardship funding at \$29,541 for 300 units. This equates to a cost of \$98.47 per unit. Per the VCU pharmacy the cost to replenish and EMS drug box with an ampule of epinephrine is \$0.93 each.

**No. of Allergic Reaction Calls**

	2005	2006	2007
BLS	97	137	76
ALS	108	122	101

The information below includes all patients for the years 2005, 2006, and 2007 where the AIC was an EMT-B and the patient was transported to a hospital. Of these 10 patients, one received medications, but no AIC level was reported for this case by the agency, it is expected this was an ALS provider. No other patients appear to have qualified (s/s of shock) for the use of epinephrine. The decreasing volume of allergic reaction patients being managed by a BLS AIC is trending towards non-existent.

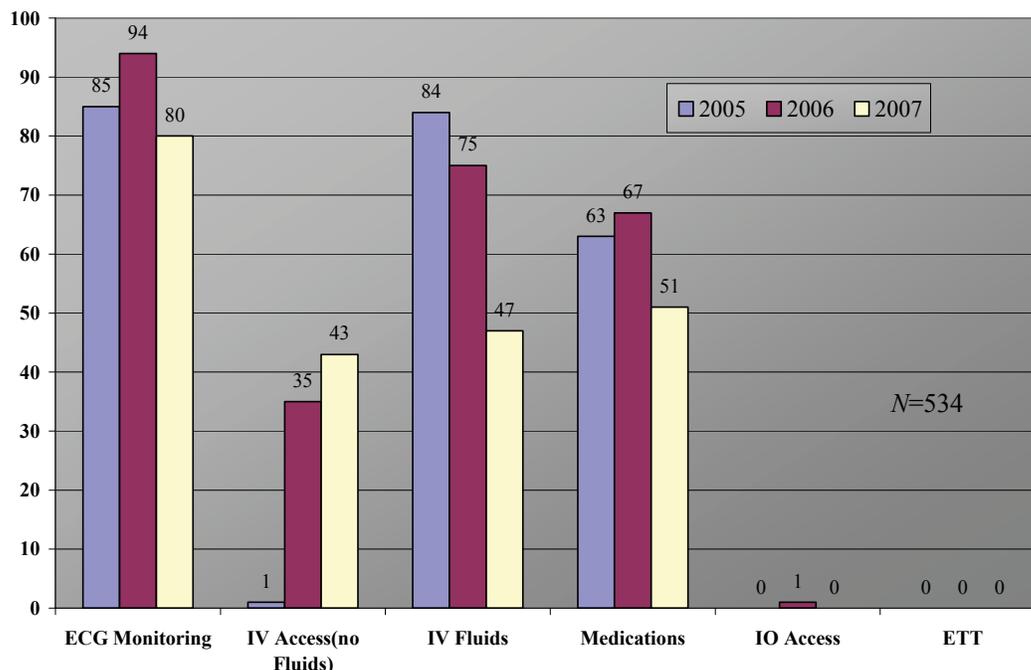
DB_ID	Year	Age	CLIN_Assess	LOC	GCS	SBP	Pulse	Resp	Skin	Treatment	AIC Lvl
004997173	2005	3	Allergic Reaction	BLS	999	999	999	999	Normal	N/A	EMT-B
005303040	2005	10	Allergic Reaction	BLS	15	999	160	40	Normal	Medication	Unknown
005241756	2005	11	Allergic Reaction	BLS	15	110	90	16	Normal	N/A	EMT-B
005239455	2005	16	Allergic Reaction	BLS	15	120	92	18	Normal	N/A	EMT-B
006719389	2006	2	Allergic Reaction	BLS	15	999	116	32	Normal	N/A	EMT-B
006136648	2006	2	Allergic Reaction	BLS	15	120	100	36	Normal	N/A	EMT-B
006649242	2006	8	Allergic Reaction	BLS	999	105	105	18	Normal	N/A	EMT-B
006653024	2006	10	Allergic Reaction	BLS	15	116	76	18	Normal	N/A	EMT-B
006911628	2007	6	Allergic Reaction	BLS	15	999	118	16	Normal	Other	EMT-B
008254642	2007	13	Allergic Reaction	BLS	999	999	110	16	Normal	Other	EMT-B

The recently added PEMS Adult Anaphylaxis Protocol allows EMT-Bs to provide epinephrine via an EpiPen ®. In 2007 there were no cases of BLS AIC's treating an allergic reaction with a medication reported. Below is a complete list of patients that may have had any alteration in their vital signs that potentially could be interpreted as "shock" as required for the treatment of anaphylaxis per the PEMS protocol. Query =Level of Care =BLS; S&S Shock (SBP<100,and/or HR>100, and/or RR>20, and/or skin perfusion decreased); AIC=EMT-B;

DB ID	Year	Age	Clin Assess 1	Clin Assess 2	SBP	PULSE	RESP	Skin	Treatment
008124678	2007	46	Allergic Reaction	Resp Distress	unk	110	18	Normal	none
007838034	2007	46	Allergic Reaction	Altered LOC	219	106	26	Normal	Other Tx
008098990	2007	999	Allergic Reaction		210	135	unk	Not Obtained	O2 Mask
007637623	2007	65	Allergic Reaction		193	106	20		Other Tx
007967721	2007	48	Allergic Reaction	Resp Distress	160	110	28	Normal	O2 Mask
007094120	2007	69	Allergic Reaction	Resp Distress	130	96	22	Normal	Cannula
008059438	2007	77	Allergic Reaction		130	68	24	Normal	Cannula
008078428	2007	52	Allergic Reaction	Other	120	106	18	Normal	none
006871331	2007	46	Allergic Reaction		90	110	24	Normal	none
008000716	2007	75	Allergic Reaction		90	88	20	Not Obtained	O2 Mask

There were no episodes of EMT-B's utilizing the procedure of medication administration to patients with the clinical impression of allergic reaction in the year 2007.

ALS Skills Used When AIC Was ALS Provider 2005-2007 PEMS



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